

**AMENDMENTS TO THE SPECIFICATION**

Please replace the paragraph beginning at page 26, lines 9-16 with the following amended paragraph:

A similar system to the *Xba*I/*dam* system described above, uses the restriction enzyme *Fok*I which has the recognition site:

5' GGATG(N)<sub>9</sub> 3' (SEQ ID NO:7)

3' CCTAC(N)<sub>13</sub> 5' (SEQ ID NO:8)

with the *dcm* methylase of *E coli*. Adding CCA or CCT to the 5'end of the *Fok*I recognition site would make the site *dcm* sensitive. Furthermore, if the sequence TCTAGA were inserted into the redundant section of the *Fok*I restriction site, then the enzyme could be used to generate 'XbaI-cut ends'.

Please replace the paragraph beginning at page 26, line 20, through page 28, lines 1-10 with the following amended paragraph:

Construction of the final expression plasmid pAR1 0 was carried out in several steps, as follows. The ten PKS DNA units were amplified by PCR using *pfu* DNA polymerase. The respective regions of *eryAI* gene, as well as the oligonucleotides used for each PCR are outlined:

LM - segment of *eryAI* gene (Bevitt *et al.*, 1992) extending from nucleotide (N) 588 to N 2389;

5'GGCATATGGCGGACCTGTCAAAGCTCTCCGACAGT3' (SEQ ID NO:9) and

5'GGTCTAGATCCCAGCCGGTCGGCAGTCCG3' (SEQ ID NO:10);

KS1 - segment of *eryAI* gene extending from N 2384 to N 3769;

5'GGTCTAGACTCGCTGTTCCACCCGACCCCACGCGCTCGGGCACCGCGCACCA3'

SEQ ID NO:11) and

5'GGTCTAGATCGCGAGCGCGGGACTCGACGGGGCGAAGGCGG3' (SEQ ID NO:12),

AT1 - segment of *eryAI* gene extending from N 3764 to N 4813;

5'GGTCTAGACGGTCTCGCGACGGAAACGCCGACGGTGCCGCCGGAA3' (SEQ ID NO:13)

and

5'GGTCTAGATCCACCGCGACACCGCGGCGAACGCGCGGGAGAGCGCTTCGC3'

(SEQ ID NO:14),

KR1 - segment of *eryAI* gene extending from N 4808 to N 6316;

5'GGTCTAGAGTCGGTGCACCTGGCACCGGAGCACGCCGGTGCCCT3' SEQ ID NO:15)

and

5'GGTCTAGATCGTCGAAGAGCCTGGTCGGCGCTGCGCGGTGTA3' SEQ ID NO:16),

ACP 1 - segment of *eryAI* gene extending from N 6311 to N 6679;

5'GGTCTAGACGACGCGCGGGCTGCGCCGCAGGCGCCGCCAACCGCGGG3'  
(SEQ ID NO:17)

and

5'GGTCTAGATCGGCCGTGGTCGCCGGTGCCGCCTGCTCGGCT3' SEQ ID NO:18),

KS2 - segment of *eryAI* gene extending from N 6674 to N 8200;

5'GGTCTAGACGAGCCATCGCGATCGTCGGCATGGCGTGCCGGCTGC3' (SEQ ID NO:19)

and

5'GGTCTAGATCGTGCACGGCCTCGCGGGTGTGGCGGGAGCACCGCGGCCGCTC3' (SEQ ID NO:20),

AT2 - segment of *eryAI* gene extending from N 8195 to N 9340;

5'GGTCTAGAGCGGGTGGCCGACGGCGCGGTGGTT3' (SEQ ID NO:21)

and

5'GGTCTAGATCGTCAC GAG G G GTG GTG CG GTCCG GCAG CAG CCAGAA3' (SEQ ID NO:22),

KR2 - segment of *eryAI* gene extending from N 9335 to N 10639;

5'GGTCTAGACGGCTGGTTCTACCGGGTCGACTGGACCGAG3' (SEQ ID NO:23)

and

5'GGTCTAGATCCGGCCGGGCCGGCGGCGGTGTAGGACT3' (SEQ ID NO:24),

ACP2 - segment of *eryAI* gene extending from N 10634 to N 10966;

5'GGTCTAGACCGCATCGTCACGACCGCGCCGAGCGA3' (SEQ ID NO:25) and

5'GGTCTAGATCGCGTCGAGGAAA3' (SEQ ID NO:26),

TE - segment of *eryAIII* gene (Donadio *et al.* 1991) extending from N 8753 to N 9602;

5'GGTCTAGACAGCGGGACTCCCGCCCAGCG3' (SEQ ID NO:27) and

5'GGGCTAGCTCTAGATCATGAATTCCCTCCGCCAGCCAGGCAGTC3' (SEQ ID NO:28).

Please replace the paragraph beginning at page 40, lines 1-20 with the following amended paragraph:

The oligonucleotides:

5'- GGTCTAGAATTGGCAAGGGCGCCGGTATGCGCATT-3' (SEQ ID NO:29) and 5'- GG TCTAGA TGTGCGGCGTCGGCCGGGGCGGCGGAGGCG-3' (SEQ ID NO:30) were used as the forward and reverse primers respectively and the 1000 bp internal region of *S. lividans recA* gene (Nussbaumer and Wohlleben, 1994) was amplified using pfu polymerase. An additional nucleotide (B) was incorporated into the forward primer to generate a frame shift in the amplified *recA* gene fragment. The PCR product was cloned in pUC-18 vector and sequenced to detect for possible errors during PCR. The 1.0 kbp *recA* fragment, flanked at both ends by an *Xba*I site was then inserted in the expression vector pCJR24 that has a unique *Xba*I site. The ligation mixture was used to transform *E. coli* DH10B cells and the desired plasmid DNA isolated. The resulting plasmid (pARecA24) contains a non- methylated *Xba*I site at the 5' end of the *recA* gene fragment. The ten PKS DNA units, namely, TE, two each of ACP1, KR1, AT1 & KS1, and LM were inserted into the plasmid pARecA24 to finally yield the expression plasmid pRecAD1TE. This plasmid was used to transform wild-type *S. lividans* protoplasts, and thiostrepton resistant colonies were grown in defined liquid media as described above. The compound (Figure 12) was isolated from the bacterial broth and chemically characterised.